## **CLAIMS**

## What is claimed is:

1 2 3 4 5 6 m	<ol> <li>A heat dissipation device, comprising:</li> <li>a base having a first base surface;</li> <li>at least one fin extending from said first base surface;</li> <li>a spring clip channel defined proximate said at least one fin; and</li> <li>a load centering mechanism within said spring clip channel, said load centering</li> <li>mechanism integrally associated with said first base surface.</li> </ol>
1 2	2. The heat dissipation device of claim 1, wherein said load centering mechanism comprises a pedestal extending from said first base surface.
1 2 3	3. The heat dissipation device of claim 1, wherein said spring clip channel further includes at least one sloped side adapted to orient a spring clip on said load centering mechanism.
1 2	4. The heat dissipation device of claim 1, wherein said load centering mechanism includes at least one sloped side adapted to orient a spring clip thereon.

1	5. The heat dissipation device of claim 1, further including at least one depression defined in said base from said first base surface that defines said load	
3	centering mechanism.	

- 6. A microelectronic assembly, comprising:
   a microelectronic device; and
- a heat dissipation device, including a base having a first base surface and an opposing second surface, wherein said heat dissipation device makes thermal contact with said microelectronic device, and including at least one fin extending from said first base surface, a spring clip channel defined proximate said at least one fin, and a load centering mechanism within said spring clip channel, said load centering mechanism integrally associated with said first base surface.
  - 7. The microelectronic assembly of claim 6, wherein said load centering mechanism of said heat comprises a pedestal extending from said first base surface.
  - 1 8. The microelectronic assembly of claim 6, wherein said spring clip channel
    2 further includes at least one sloped side adapted to orient a spring clip on said load
    3 centering mechanism.
  - 1 9. The microelectronic assembly of claim 6, wherein said load centering mechanism includes at least one sloped side adapted to orient a spring clip thereon.

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- 1 10. The microelectronic assembly of claim 6, further including at least one 2 depression defined in said base from said first base surface that defines said load 3 centering mechanism.
- 1 11. A method for fabricating a heat dissipation device, comprising:
  2 forming a base having a first base surface;
  3 forming at least one fin extending from said first base surface;
  4 forming a spring clip channel defined proximate said at least one fin; and
  5 forming a load centering mechanism within said spring clip channel, said load

centering mechanism integrally associated with said first base surface.

- 1 12. The method of claim 11, wherein said forming said base, forming said at
  2 least one fin, forming said spring clip channel, and forming said load centering
  3 mechanism occur substantially simultaneously in a molding process.
- 1 13. The method of claim 11, wherein forming said load centering mechanism 2 comprises forming a pedestal extending from said first base surface.
- 1 14. The method of claim 11, wherein forming said load centering mechanism 2 comprises attaching said load centering mechanism to said base first surface within said 3 spring clip channel.

- 1 15. The method of claim 11, wherein forming said base, forming said at least
  2 one fin, and forming said spring clip channel occur substantially simultaneously in a
  3 extrusion process, and forming said load centering mechanism comprises milling away a
  4 portion of said spring clip channel.
- 1 16. The method of claim 11, wherein forming said load centering mechanism 2 comprises forming at least one depression extending into said base from said base first 3 surface within said spring clip channel.
- 1 17. The method of claim 11, wherein forming said spring clip channel further
  2 includes forming at least one sloped side adapted to orient a spring clip on said load
  3 centering mechanism.
- 1 18. The method of claim 11, wherein forming said load centering mechanism 2 further includes forming at least one sloped side adapted to orient a spring clip thereon.
- 1 19. A method for fabricating a microelectronic assembly, comprising:
  2 providing a microelectronic device;
  3 providing a heat dissipation device including a base having a first base surface
  4 and an opposing second base surface, at least one fin extending from said first base
  5 surface, a spring clip channel defined proximate said at least one fin, and a load centering

- 6 mechanism within said spring clip channel, said load centering mechanism integrally
- 7 associated with said first base surface;
- 8 placing said heat dissipation device second base surface in thermal contact and
- 9 microelectronic device; and
- placing a spring clip within said spring clip channel.
- 1 20. The method of claim 19, further including placing said microelectronic
- 2 device in a socket, and securing said spring clip to said socket.